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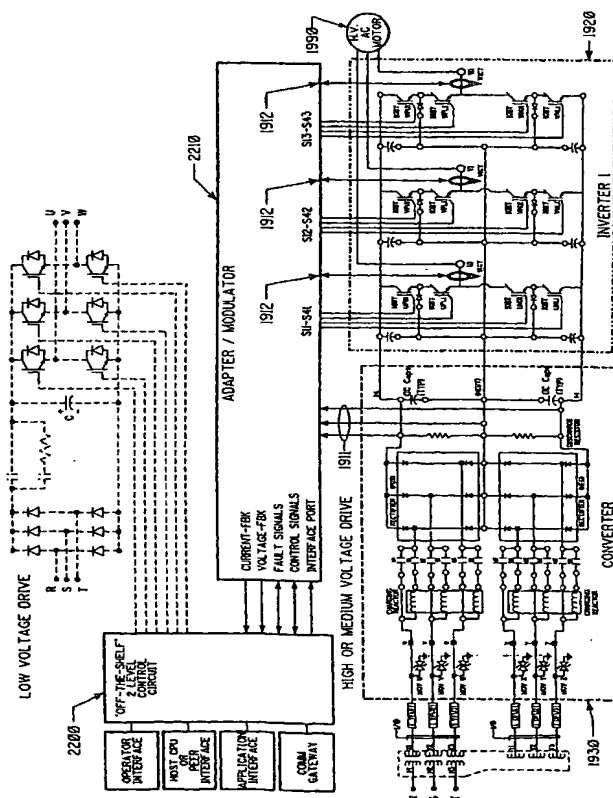
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(54) Title: **LOW VOLTAGE, TWO-LEVEL, SIX-PULSE INDUCTION MOTOR CONTROLLER DRIVING A MEDIUM-TO-HIGH VOLTAGE, THREE-OR-MORE-LEVEL AC DRIVE INVERTER BRIDGE**



(57) Abstract: A method and circuit enabling off-the-shelf controllers designed for use with a two-level AC drive inverter bridge (1920) to drive inverter bridges with three-or-more levels. Signals from an ordinary induction motor controller or a two-level induction motor controller (2200) are used to drive the twelve-or-more switches of a three-or-more level inverter bridge (1920), as are used in medium-and-high voltage applications. The proper sequence and timing of switching for the three-or-more-level inverter bridge is based in-part upon either the output of the six pulse-width modulators, or the output of the flux and torque control device, or the voltage control device (2210), of the two-level controller (2200).

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